(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 11 August 2005 (11.08.2005)

PCT

(10) International Publication Number WO 2005/072308 A2

(51) International Patent Classification: Not classified

(21) International Application Number:

PCT/US2005/002199

(22) International Filing Date: 25 January 2005 (25.01.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(**30**) Priority Data: 60/539,957

29 January 2004 (29.01.2004)

(71) Applicant (for all designated States except US): MERCK & CO., INC. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BURGEY, Christopher, S. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). PAONE, Daniel, V. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). SHAW,

Anthony, W. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). STUMP, Craig, A. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). WILLIAMS, Theresa, M. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

- (74) Common Representative: MERCK & CO., INC.; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: CGRP RECEPTOR ANTAGONISTS

(57) **Abstract:** Compounds of Formula (I): and Formula (II), where variables $R_{\xi}1$?, $R_{\xi}2$?, $R_{\xi}3$?, $R_{\xi}4$?, A, B, D, G, J, Q, T, W, X and Y are as defined herein, useful as antagonists of CGRP receptors and useful in the treatment or prevention of diseases in which the CGRP is involved, pharmaceutical compositions comprising these compounds, use of these compounds and compositions to prevent or treat diseases involving CGRP.

WO 2005/072308 A2

ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

 without international search report and to be republished upon receipt of that report